

10/713565

FILE 'CAPLUS' ENTERED AT 12:06:24 ON 04 MAR 2005

L1 5406 SEA FILE=CAPLUS ABB=ON PLU=ON (NEURON? OR NERVE OR NEURITE OR AXON) AND (DEVICE OR APPARAT?)

L2 125 SEA FILE=CAPLUS ABB=ON PLU=ON L1 AND (HOUSING OR HOUSE# OR CHIP OR 3D OR (3 OR THREE) (W) (D OR DIMENSION?))

L3 12 SEA FILE=CAPLUS ABB=ON PLU=ON L2 AND (APERTURE OR HOLE OR WINDOW OR PORE OR OPENING OR GAP OR SLIT OR SLITTED OR ORIFICE)

L4 2152 SEA FILE=CAPLUS ABB=ON PLU=ON (NEURON? OR NERVE OR NEURITE OR AXON) AND (HOUSING OR HOUSE# OR CHIP OR 3D OR (3 OR THREE) (W) (D OR DIMENSION?))

L5 122 SEA FILE=CAPLUS ABB=ON PLU=ON L4 AND (APERTURE OR HOLE OR WINDOW OR PORE OR OPENING OR GAP OR SLIT OR SLITTED OR ORIFICE)

L6 56 SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND (RESERVOIR OR WELL OR COMPARTMENT? OR CHAMBER? OR CHANNEL? OR RECEPTACLE)

L7 11 SEA FILE=CAPLUS ABB=ON PLU=ON L6 AND (EYE OR RETINA# OR OCULAR OR OPTIC OR OPTICAL?)

L8 18 L3 OR L7

L8 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 11 Feb 2005

ACCESSION NUMBER: 2005:121193 CAPLUS

TITLE: Biomarkers of cyclin-dependent kinase modulation in cancer therapy

INVENTOR(S): Li, Martha; Rupnow, Brent A.; Webster, Kevin R.; Jackson, Donald G.; Wong, Tai W.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 141 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005012875	A2	20050210	WO 2004-US24424	20040729
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2003-490890P P 20030729

AB Biomarkers having expression patterns that correlate with a response of cells to treatment with one or more cdk modulating agents, and uses thereof. Transcription profiling was used to identify the biomarkers.

10/713565

Specifically, transcription profiling of the effect of a certain cdk2 inhibitor (BMS 387032 0.5 L-tartaric acid salt) on peripheral blood mononuclear cells was first performed. Gene **chips** were used to quantitate the levels of gene expression on a large-scale with Affymetrix human gene **chips** HG-U95A, B, and C. Next, profiling of a cdk2 inhibitor-treated tumor cell line A28780 at multiple doses and time points was performed to establish a correlation of tumor site response with peripheral blood biomarkers. In order to establish the mol. target-specificity of the potential biomarkers, tumor cell line A2780 treated with anti-cdk2 oligonucleotides was also profiles. Overlapping gene expression changes were selected for further evalutaion in human ovarian carcinoma xenograft A2780 that were treated with the cdk2 inhibitor. The selected biomarkers were subjected toreal-time PCR anal. in order to verify the observed changes from the gene **chip** anal. The biomarker comprising GenBank accession number W28729 was discovered to have the most consistent and robust regulation in response to cdk inhibition. Provided are methods for testing or predicting whether a mammal will respond therapeutically to a method of treating cancer that comprises administering an agent that modulates cdk activity.

L8 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
ED Entered STN: 12 Nov 2004  
ACCESSION NUMBER: 2004:964608 CAPLUS  
DOCUMENT NUMBER: 141:401036  
TITLE: Artificial synapse **chip** for administering a fluid to a **neuronal** site  
INVENTOR(S): Fishman, Harvey A.; Bloom, David M.; Bent, Stacey F.; Peterman, Mark C.; Noolandi, Jaan; Mehenti, Neville  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 184,210.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004224002	A1	20041111	US 2003-713565	20031113
US 2003032946	A1	20030213	US 2002-184210	20020627
PRIORITY APPLN. INFO.:			US 2001-301934P	P 20010629
			US 2002-184210	A2 20020627

AB **Devices** and methods are provided for administering a fluid to a **neuronal** site. The **device** comprises a **reservoir**, an **aperture** in fluid connection to the **reservoir**, and elec. means for moving to the fluid to or through the **aperture**. The elec. means may take the form of electroosmotic force, piezoelec. movement of a diaphragm or electrolysis of a solution The elec. means may be external to the host, implanted in the host or may be photodiodes activated by light, particularly where the **neuronal** site is associated with the **retina**.

L8 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
ED Entered STN: 19 Jul 2004

Searcher : Shears 571-272-2528

10/713565

ACCESSION NUMBER: 2004:576183 . CAPLUS  
DOCUMENT NUMBER: 141:136610  
TITLE: **Neurons** on a **chip**: New evaluation  
of the **gap** between biology and  
microelectronics  
AUTHOR(S): Bartic, Carmen; De Keersmaecker, Koen; Parton, Els  
CORPORATE SOURCE: IMEC vzw, Louvain, Belg.  
SOURCE: Produktion von Leiterplatten und Systemen (2004),  
6(5), 811-814  
CODEN: PLSYF3; ISSN: 1436-7505  
PUBLISHER: Eugen G. Leuze Verlag  
DOCUMENT TYPE: Journal  
LANGUAGE: German

AB In a joint project, Imec, the University of Louvain School of Medicine and the Hebrew University of Jerusalem, are researching new transducer concepts, surface chemical solns. and packaging techniques, in order to span the present **gap** between biol. and electronics. The focus of the project is the interface between **neurons** and a **chip**. The present perception is that surface chemical is the key to creating an efficient and reliable ion-electronic **device**.

L8 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 10 May 2004

ACCESSION NUMBER: 2004:376183 CAPLUS  
TITLE: Optokinetic deficits in albino ferrets (*Mustela putorius furo*): A behavioral and electrophysiological study  
AUTHOR(S): Hoffmann, Klaus-Peter; Garipis, Nicolaos; Distler, Claudia  
CORPORATE SOURCE: Allgemeine Zoologie und Neurobiologie, Ruhr-Universitaet Bochum, Bochum, D-44780, Germany  
SOURCE: Journal of Neuroscience (2004), 24(16), 4061-4069  
CODEN: JNRSDS; ISSN: 0270-6474  
PUBLISHER: Society for Neuroscience  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB We compared the horizontal optokinetic reaction (OKR) and response properties of **retinal slip neurons** in the nucleus of the **optic** tract and dorsal terminal nucleus (NOT-DTN) of albino and wild-type ferrets (*Mustela putorius furo*). In contrast to pigmented ferrets, we were unable to observe OKR in albino ferrets during binocular and monocular viewing using random dot full field stimulation and electrooculog. (EOG). Observations during early postnatal life indicate that regular OKR is present in pigmented pups 3 d after **eye opening** but is absent at any stage during development in albino ferrets. Unilateral muscimol injections to inactivate all **neurons** in the NOT-DTN containing GABAA and GABAC receptors caused spontaneous horizontal nystagmus with slow phases away from the injected hemisphere in albino as **well** as in pigmented animals. **Retinal slip neurons** in the NOT-DTN of albino ferrets identified by antidromic activation from the inferior olive and orthodromic activation from the **optic** chiasm were **well** responding to intermittent bright light stimuli, but many showed a profound reduction of responsiveness to moving stimuli. The movement-sensitive **neurons** exhibited no clear direction selectivity for ipsiversive stimulus movement, a characteristic property

10/713565

of these **neurons** in pigmented ferrets and other mammals. Thus, the defect rendering albino ferrets optokinetically nonresponsive is located in the visual pathway subserving the OKR, namely in or before the NOT-DTN, and not in oculomotor centers.

REFERENCE COUNT: 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 01 Apr 2004

ACCESSION NUMBER: 2004:266918 CAPLUS

DOCUMENT NUMBER: 140:282485

TITLE: Methods for diagnosing interstitial lung diseases using biomarkers identified by microarray gene expression profiling

INVENTOR(S): Bevec, Dorian

PATENT ASSIGNEE(S): Mondobiotech SA, Switz.

SOURCE: Eur. Pat. Appl., 43 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1403638	A1	20040331	EP 2002-21413	20020925
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			EP 2002-21413	20020925
AB The present invention relates to mol. methods diagnosing interstitial lung diseases (ILDs) using microarrays of candidate polynucleotides. The present invention also relates to methods useful in mol. evaluation of the efficacy of a drug applied to a person in need suffering from an ILD by gene expression profiling images. An aspect of the invention relates to the use of polynucleotide arrays, which allows to quant. study mRNA expression levels of selected candidate genes in human biopsies. A method for detecting gene expression of infective agents from patients with ILD is also disclosed.				

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 01 Apr 2004

ACCESSION NUMBER: 2004:266812 CAPLUS

DOCUMENT NUMBER: 141:145635

TITLE: A photolabile hydrogel for guided **three-dimensional** cell growth and migration

AUTHOR(S): Luo, Ying; Shoichet, Molly S.

CORPORATE SOURCE: Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, ON, M5S 3E5, Can.

SOURCE: Nature Materials (2004), 3(4), 249-253

CODEN: NMAACR; ISSN: 1476-1122

PUBLISHER: Nature Publishing Group

DOCUMENT TYPE: Journal

LANGUAGE: English

Searcher : Shears 571-272-2528

AB Tissue engineering aims to replace, repair or regenerate tissue/organ function, by delivering signalling mols. and cells on a **three-dimensional (3D)** biomaterials scaffold that supports cell infiltration and tissue organization. To control cell behavior and ultimately induce structural and functional tissue formation on surfaces, planar substrates have been patterned with adhesion signals that mimic the spatial cues to guide cell attachment and function. The objective of this study was to create biochem. **channels** in 3D hydrogel matrixes for guided axonal growth. An agarose hydrogel modified with a cysteine compound containing a sulphydryl protecting group provides a photolabile substrate that can be patterned with biochem. cues. In this transparent hydrogel we immobilized the adhesive fibronectin peptide fragment, glycine-arginine-glycine-aspartic acid-serine (GRGDS), in selected vols. of the matrix using a focused laser. We verified in vitro the guidance effects of GRGDS oligopeptide-modified **channels** on the 3D cell migration and **neurite** outgrowth. This method for immobilizing biomols. in 3D matrixes can generally be applied to any **optically** clear hydrogel, offering a solution to construct scaffolds with programmed spatial features for tissue engineering applications.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 16 Feb 2004

ACCESSION NUMBER: 2004:122803 CAPLUS

DOCUMENT NUMBER: 141:238933

TITLE: **Neurons on chip: bridging the gap** between biology and microelectronics

AUTHOR(S): Bartic, Carmen; de Keersmaecker, Koen; Parton, Els

CORPORATE SOURCE: IMEC, Louvain, B-3001, Belg.

SOURCE: Advanced Packaging (2004), 13(1), 15-16

CODEN: ADPAFZ; ISSN: 1065-0555

PUBLISHER: PennWell Corp.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. To bridge the **gap** between biol. and electronics in **neurons on chip**, IMEC, the University Hospital of Leuven (Leuven, Belgium) and Hebrew University (Jerusalem, Israel) researchers are exploring new transducer concepts, surface chemical solns. and packaging techniques. The key to efficient and reliable ionoelectronic **devices** is surface chemical. The potential benefits from the combination of electronics and biol. technologies will take many formats in the future. **Neurons-on-chip** is a basic step in this advancement.

L8 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 22 Dec 2003

ACCESSION NUMBER: 2003:993794 CAPLUS

DOCUMENT NUMBER: 140:428921

TITLE: The artificial synapse **chip: a flexible retinal** interface based on directed **retinal** cell growth and neurotransmitter stimulation

AUTHOR(S): Peterman, Mark C.; Mehenti, Neville Z.; Bilbao, Kalayaan V.; Lee, Christina J.; Leng, Theodore;

10/713565

not prior

CORPORATE SOURCE: Noolandi, Jaan; Bent, Stacey F.; Blumenkranz, Mark S.; Fishman, Harvey A.  
SOURCE: Department of Applied Physics, Stanford University, Stanford, CA, USA  
Artificial Organs (2003), 27(11), 975-985  
CODEN: ARORD7; ISSN: 0160-564X  
PUBLISHER: Blackwell Publishing, Inc.  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The Artificial Synapse **Chip** is an evolving design for a flexible **retinal** interface that aims to improve visual resolution of an electronic **retinal** prosthesis by addressing cells individually and mimicking the physiol. stimulation achieved in synaptic transmission. We describe three novel approaches employed in the development of the Artificial Synapse **Chip**: (i) micropatterned substrates to direct **retinal** cell **neurite** growth to individual stimulation sites; (ii) a prototype **retinal** interface based on localized neurotransmitter delivery; and (iii) the use of soft materials to fabricate these **devices**. By patterning the growth of cells to individual stimulation sites, we can improve the selectivity of stimulation and decrease the associated power requirements. Moreover, we have microfabricated a neurotransmitter delivery system based on a 5- $\mu$ m **aperture** in a 500-nm-thick silicon nitride membrane overlying a microfluidic **channel**. This **device** can release neurotransmitter vols. as small as 2 pL, demonstrating the possibility of chemical-based prostheses. Finally, we have fabricated and implanted an equivalent **device** using soft flexible materials that conform to the **retinal** tissue more effectively. As many of the current **retinal** prosthesis **devices** use hard materials and elec. excitation at a lower resolution, our approach may provide more physiol. **retinal** stimulation.

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 15 Apr 2003

ACCESSION NUMBER: 2003:289572 CAPLUS

TITLE: High-performance confocal system for microscopic or endoscopic applications

AUTHOR(S): Rector, David M.; Ranken, Douglas M.; George, John S.

CORPORATE SOURCE: MS-D454, P-21, Biophysics Group, Los Alamos National Laboratory, Los Alamos, NM, 87545, USA

SOURCE: Methods (San Diego, CA, United States) (2003), 30(1), 16-27

CODEN: MTHDE9; ISSN: 1046-2023

PUBLISHER: Elsevier Science

DOCUMENT TYPE: Journal

LANGUAGE: English

AB We designed a high-performance confocal system that can be easily adapted to an existing light microscope or coupled with an endoscope for remote imaging. The system employs spatially and temporally patterned illumination produced by one of several mechanisms, including a micromirror array video projection **device** driven by a computer video source or a microlens array scanned by a piezo actuator in the microscope illumination path. A series of subsampled "component" video images are acquired from a solid-state video camera. Confocal images are

10/713565

digitally reconstructed using "virtual pinhole" synthetic **aperture** techniques applied to the collection of component images. Unlike conventional confocal techniques that raster scan a single detector and illumination point, our system samples multiple locations in parallel, with particular advantages for monitoring fast dynamic processes. We compared methods of patterned illumination and confocal image reconstruction by characterizing the point spread function, contrast, and intensity of imaged objects. Sample **3D** reconstructions include a diatom and a Golgi-stained **nerve** cell collected in transmission.

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 10 Jan 2003

ACCESSION NUMBER: 2003:23002 CAPLUS

DOCUMENT NUMBER: 138:78535

TITLE: Artificial synapse **chip** interface for electronic prosthetic **retina**

INVENTOR(S): Fishman, Harvey A.; Blumenkranz, Mark; Bent, Stacey Francine; Bloom, David M.; Peterman, Mark C.; Ziebarth, Jonathan M.; Lee, Christine; Leng, Theodore

PATENT ASSIGNEE(S): The Board of Trustees of Leland Stanford Jr. University, USA

SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003002710	A2	20030109	WO 2002-US20526	20020625
WO 2003002710	A3	20040205		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1421172	A2	20040526	EP 2002-744712	20020625
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2004533837	T2	20041111	JP 2003-509072	20020625
PRIORITY APPLN. INFO.:			US 2001-301934P	P 20010629
			WO 2002-US20526	W 20020625

AB The invention provides microfabricated **devices** and methods for directing the growth of a cell process to form an artificial synapse. The **devices** are called artificial synapse **chips**. The artificial synapse comprises a nanofabricated **aperture** (about 50-100 nm in size) that connects the cell process to a chemical or elec.

Searcher : Shears 571-272-2528

means of **neuronal** excitation. Such an **aperture** width mimics the length scales of a natural synapse and thus emphasizes the localized spatial relationship between a **neuron** and a stimulation source. The invention further provides **devices** and methods for regenerating a **nerve** fiber into an electrode. The invention thus provides a regeneration electrode that uses a novel neural interface for stimulation and that uses novel surface methods for directing **neuronal** growth making possible in vivo connection of the **devices** to neural circuitry in a **retina** and other anatomical locations.

L8 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 10 Dec 2002

ACCESSION NUMBER: 2002:937303 CAPLUS

DOCUMENT NUMBER: 138:20443

TITLE: Endocrine disruptor screening using DNA **chips** of endocrine disruptor-responsive genes

INVENTOR(S): Kondo, Akihiro; Takeda, Takeshi; Mizutani, Shigetoshi; Tsujimoto, Yoshimasa; Takashima, Ryokichi; Enoki, Yuki; Kato, Ikunoshin

PATENT ASSIGNEE(S): Takara Bio Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 386 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002355079	A2	20021210	JP 2002-69354	20020313
PRIORITY APPLN. INFO.:			JP 2001-73183	A 20010314
			JP 2001-74993	A 20010315
			JP 2001-102519	A 20010330

AB A method and kit for detecting endocrine-disrupting chems. using DNA microarrays are claimed. The method comprises preparing a nucleic acid sample containing mRNAs or cDNAs originating in cells, tissues, or organisms which have been brought into contact with a sample containing the endocrine disruptor. The nucleic acid sample is hybridized with DNA microarrays having genes affected by the endocrine disruptor or DNA fragments originating in these genes have been fixed. The results obtained are then compared with the results obtained with the control sample to select the gene affected by the endocrine disruptor. Genes whose expression is altered by tri-Bu tin, 4-octaphenol, 4-nonylphenol, di-N-Bu phthalate, dichlorohexyl phthalate, octachlorostyrene, benzophenone, diethylhexyl phthalate, diethylstilbestrol (DES), and 17- $\beta$  estradiol (E2), were found in mice by DNA **chip** anal.

L8 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 23 Oct 2002

ACCESSION NUMBER: 2002:805193 CAPLUS

DOCUMENT NUMBER: 138:103045

TITLE: Microfabricated patch-clamp array for neural mems applications

AUTHOR(S): Kubow, Timothy M.; Cheung, Karen C.; Bentley, Loren F.; Lee, Luke P.



10/713565

CORPORATE SOURCE: Joint Graduate Group in Bioengineering University of  
California San Francisco / Berkeley, Berkeley, CA,  
94720, USA  
SOURCE: Materials Research Society Symposium Proceedings  
(2002), 729 (BioMEMS and Bionanotechnology), 197-202  
CODEN: MRSPDH; ISSN: 0272-9172  
PUBLISHER: Materials Research Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Microfabricated patch clamping **devices** comprising planar arrays  
of individually addressable nozzles, fluidic **channels** and  
electrodes have been developed. Patch clamp based electrophysiol.  
techniques are among the most widespread methods in neurophysiol. and are  
used to address a broad range of cellular physiol. and quant. biol.  
questions. Among the limitations of the technique are the difficulty of  
obtaining multiple patches on connected cells or on the same cell, limited  
stability of patches, and constraints on chemical and **optical**  
access to the patched membrane. The parallel array **device** will  
enable the formation of multiple seals simultaneously. The structure  
facilitates visualization of the interior of the patched membrane during  
elec. recording, as **well** as delivery of chems. The  
microfabrication technique gives precise control over the capacitive and  
resistive characteristics of the electrode **channels**, as  
**well** as the flow resistance, which are important factors in patch  
clamp recording. The **device** is fabricated using an SOI wafer  
and Deep Reactive Ion Etching to create an array of cylindrical nozzles,  
each of which has a core of silicon dioxide and interior walls of silicon  
nitride. Vertical **channel** segments and plumbing **holes**  
are fabricated by deep reactive ion etching through the wafer. Important  
elec. properties of the **device** were characterized, and patch  
clamping was attempted.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 28 Jun 2002

ACCESSION NUMBER: 2002:486126 CAPLUS

DOCUMENT NUMBER: 137:52439

TITLE: Reinforced foam implants for soft tissue repair and  
regeneration

INVENTOR(S): Bowman, Steven; Bruker, Izi; Rezania, Alireza;  
Binette, Francois; Hwang, Julia

PATENT ASSIGNEE(S): Ethicon, Inc., USA

SOURCE: Eur. Pat. Appl., 23 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1216718	A1	20020626	EP 2001-310843	20011221
EP 1216718	B1	20041006		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

Searcher : Shears 571-272-2528

10/713565

US 2002119177	A1	20020829	US 2000-747488	20001221
US 6852330	B2	20050208		
US 2002120348	A1	20020829	US 2000-747489	20001221
US 6599323	B2	20030729		
US 2002127265	A1	20020912	US 2001-22182	20011214
PRIORITY APPLN. INFO.:			US 2000-747488	A 20001221
			US 2000-747489	A 20001221
			US 2001-22182	A 20011214

AB A biocompatible tissue repair stimulating implant or "scaffold" device is used to repair tissue injuries, particularly injuries to ligaments, tendons and nerves. The tissue implant comprises one or more layers of bioabsorbable polymeric foam having pores with an open cell structure. The tissue implant also includes a reinforcement component which contributes both to the mech. and the handling properties of the implant and a biol. component that assists in healing or tissue repair. An example describes the preparation of 3-dimensional elastomeric tissue implants with and without a reinforcement in the form of a biodegradable mesh (glycolic-lactic acid polymer). The foam component is polycaprolactone-poly(lactic acid).

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 04 Jun 2002

ACCESSION NUMBER: 2002:418316 CAPLUS

DOCUMENT NUMBER: 138:276142

TITLE: A biohybrid system to interface peripheral nerves after traumatic lesions: design of a high channel sieve electrode

AUTHOR(S): Stieglitz, T.; Ruf, H. H.; Gross, M.; Schuettler, M.; Meyer, J.-U.

CORPORATE SOURCE: Department of Sensor Systems/Microsystems, Fraunhofer Institute for Biomedical Engineering, St. Ingbert, D-66386, Germany

SOURCE: Biosensors & Bioelectronics (2002), 17(8), 685-696  
CODEN: BBIOE4; ISSN: 0956-5663

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Peripheral nerve lesions lead to nerve degeneration and flaccid paralysis. The first objective in functional rehabilitation of these diseases should be the preservation of the neuro-muscular junction by biol. means and following functional elec. stimulation (FES) may restore some function of the paralyzed limb. The combination of biol. cells and tech. microdevices to biohybrid systems might become a new approach in neural prosthetics research to preserve skeletal muscle function. In this paper, a microdevice for a biohybrid system to interface peripheral nerves after traumatic lesions is presented. The development of the microprobe design and the fabrication technol. is described and first exptl. results are given and afterwards discussed. The tech. microprobe is designed in a way that meets the most important tech. requirements: adaptation to the distal nerve stump, suitability to combine the microstructure with a containment for cells, and integrated microelectrodes as information transducers for cell stimulation and monitoring. Micromachining technologies were applied to fabricate a polyimide-based sieve-like microprobe with 19

Searcher : Shears 571-272-2528

substrate-integrated ring electrodes and a distributed counter electrode. Monolithic integration of fixation flaps and a **three-dimensional** shaping technol. led to a **device** that might be adapted to **nerve** stumps with neurosurgical sutures in the epineurium. First exptl. results of the durability of the shaping technol. and electrochem. electrode properties were investigated. The **three-dimensional** shape remained quite stable after sterilization in an autoclave and chronic implantation. Electrode impedance was below 200 k $\Omega$  at 1 kHz which ought to permit recording of signals from **nerves** sprouting through the sieve **holes**

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 06 Jul 2000

ACCESSION NUMBER: 2000:452864 CAPLUS

DOCUMENT NUMBER: 133:205874

TITLE: Hierarchic model of consciousness: from molecular Bose condensation to synaptic reorganization

AUTHOR(S): Kaivarainen, Alex

CORPORATE SOURCE: Univ. Turku, JBL, Turku, FIN-20520, Finland

SOURCE: Los Alamos National Laboratory, Preprint Archive, Physics (2000) 1-30, arXiv:physics/0003045, 31 Mar 2000

CODEN: LNPHF9

URL: <http://xxx.lanl.gov/pdf/physics/0003045>

PUBLISHER: Los Alamos National Laboratory

DOCUMENT TYPE: Preprint

LANGUAGE: English

AB Hierarchic Model of Consciousness, proposed in this work, is based on Hierarchic Theory of Matter and Field, developed by the author (Kaivarainen, 1995; 2000; <http://arXiv.org/abs/physics/0003044>), its application to properties of water in microtubules (MT) and distant exchange electromagnetic interaction between MT. In accordance to our Hierarchic Model of Consciousness (HMC), each specific kind of **neuron** ensembles excitation - corresponds to hierarchical system of **three-dimensional** (3D) standing waves of following interrelated kinds: thermal de Broglie waves (waves B), produced by anharmonic translations and librations of mols.' electromagnetic (IR) waves; acoustic waves and vibro-gravitational waves (<http://arXiv.org/abs/physics/0003045>). Corresponding complex hologram may be responsible not only for quantum neuro dynamics regulations, but for morphogenetic field also. In our model we consider corresponding quantum collective excitations, resulted from coherent anharmonic translational and librational oscillations of water mols. in the hollow core of the microtubules. This water fraction is most organized and orchestrated fraction of condensed matter in cells. The mechanism suggested, needs the existence the following hierarchical stages of each elementary act of perception and memory, as a consequence of simultaneous excitation and depolarization of big enough number of interacting quantum mech. and classically **neurons**, forming cooperative ensemble: 1. The change of the elec. field tension in the **neuron's** body, as a result of membranes depolarization; 2. **Opening** the potential dependent Ca<sup>2+</sup> **channels** and increasing the concentration of these ions in cytoplasm. Activation of Ca<sup>2+</sup> - dependent protein gelsolin, which

stimulate fast disassembly of actin filaments; 3. Shift of A .dblharw. B equilibrium between the closed (A) and open to water (B) states of cleft, formed by  $\alpha$  and  $\beta$  tubulins in tubulin pairs of microtubules (MT) to the right as a consequence of piezoelec. effect, induced by depolarization; 4. Increasing the life-time and dimensions of coherent "flickering" water clusters in MT, representing the 3D superposition of de Broglie standing waves (primary librational effects on) of H<sub>2</sub>O mols. in hollow core of MT. It is a result of the water mols. immobilization by 'open' nonpolar clefts of ( $\alpha\beta$ ) dimers in MT; 5. Increasing the superradiance of coherent IR photons induced by synchronization of quantum transitions of the effects on between acoustic and **optic** like states. Corresponding increasing of probability of superdeformons (cavitational fluctuations) excitation in water of cytoplasm; 6. The disassembly of actin filaments system to huge number of submits, [gel→sol] transition and increasing of water fraction in hydration shell of proteins. It is a result of cavitational fluctuations and destabilization of actin filaments by Ca<sup>2+</sup>. These events decrease the water activity in cytoplasm and increase strongly the passive osmotic diffusion of water from the external volume to the cell; 7. As a consequence of previous stage, a jump-way increasing of the **nerve** cell body volume (pulsation), accompanied by disrupting the (+) ends of MTs with cytoplasmic membranes occurs. This stage makes MTs possible to change their orientation inside **neuron**'s body; 8. Spatial "tuning" - collective reorientation of MTs of simultaneously excited **neurons** to geometry, corresponding to min. potential energy of distant (but not nonlocal) electromagentic and vibrio-gravitational interaction between MTs and centrioles twisting; 9. Decreasing the concentration of Ca<sup>2+</sup> to the critical one, when disassembly of actin filaments is stopped and [gel .dblharw. sol] equilibrium shifts to the left again, stabilizing the new MTs system spatial configuration, the **nerve** cell body volume and geometry. This new geometry of **nerve** cells after fixation of (+) ends of MTs back to plasmatic membrane - dets. the new distribution of ionic **channels** activity and reorganization of synaptic contacts in all excited ensemble of **neurons** after relaxation, i.e. short-term an long-term memory. The Brownian effects, which influence reorientation of MTs system and probability of cavitational fluctuations, stimulating [gel = sol] transition in **nerve** cells - represent in our model the non-computational element of consciousness. Other models (Wigner, 1955 and Penrose, 1994) relate this element to wave function collapse. Full text of our paper is placed at:<http://arXiv.org/abs/physics/0003045>.

REFERENCE COUNT: 87 THERE ARE 87 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 ED Entered STN: 07 Apr 2000  
 ACCESSION NUMBER: 2000:226032 CAPLUS  
 DOCUMENT NUMBER: 133:147072  
 TITLE: Image processing experiments for computer-based  
**three-dimensional** reconstruction of  
**neurones** from electron micrographs from serial  
 ultrathin sections  
 AUTHOR(S): Shishido, O.; Yoshida, N.; Umino, O.  
 CORPORATE SOURCE: Department of Information Science, Toho University,  
 Funabashi, 274, Japan  
 SOURCE: Journal of Microscopy (Oxford) (2000), 197(3), 224-238

10/713565

CODEN: JMICAR; ISSN: 0022-2720  
PUBLISHER: Blackwell Science Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB This study examined an image processing technique that uses a computer to reconstruct a **three-dimensional** image of **neurons** from electron micrographs of serial ultrathin sections. The major problems involved were: (a) a distortion of features in electron micrographs: (b) a significant change of cross-section features of **neurons** in electron micrographs of neighboring sections: and (c) disagreement between the electron microscopic section face and the coordinate plane desired for the reconstruction. Electron micrographs of a **retinal** bipolar cell stained with a biotinylated tracer were used. We corrected the distortion of features by means of a warp, a widely used algorithm in morphing image processing. The change of features between neighboring electron micrographs was minimized by filling the **gaps** with an interpolated image produced by a dissolve, another algorithm in morphing, as well as the warp. The distortion of the **three-dimensional** reconstructed image made by piling up features was corrected by making the image with a wire frame model.

Furthermore, in order to estimate a closed contour of features, an active contour model, Snakes, was applied to the electron microscope features. Snakes successfully detected the contour of the target feature, but in some electron microscope images broke into the target feature.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 01 May 1996

ACCESSION NUMBER: 1996:254713 CAPLUS

DOCUMENT NUMBER: 124:338706

TITLE: Electron microscopic serial-sectioning/reconstruction study of parvalbumin-containing **neurons** in the external plexiform layer of the rat olfactory bulb

AUTHOR(S): Toida, K.; Kosaka, K.; Heizmann, C. W.; Kosaka, T.

CORPORATE SOURCE: Faculty Medicine, Kyushu University, Fukuoka, 812-82, Japan

SOURCE: Neuroscience (Oxford) (1996), 72(2), 449-66

CODEN: NRSCDN; ISSN: 0306-4522

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB **Neurons** containing a calcium-binding protein parvalbumin in the external plexiform layer of the rat olfactory bulb were identified by light microscopy with pre-embedding immunocytochem. and were subsequently analyzed with electron microscopic serial-sectioning and **3-dimensional** reconstructions. Several different types of parvalbumin-immunoreactive **neurons** were as Van Gehuchten cell type, superficial short-axon cell type, and multipolar cell type. Parvalbumin-immunoreactive somata were similar to one another in their ultrastructural characteristics, showing nuclear indentations, moderately developed Golgi **apparatus**, and abundant mitochondria; these structural features appeared to resemble those of the short **axon** cells around the glomeruli and in the granule cell layer reported in previous electron microscopic studies. All **neurons**

analyzed in the present study made sym. synapses onto dendrites and somata of presumed mitral/tufted cells and received asym. synapses from them, and occasionally formed reciprocal synapses with them. On the parvalbumin-immunoreactive processes, the asym. synapses nearly equaled the sym. ones in number and about 30-50% of them were identified as reciprocal pairs. In contrast, no presynaptic sites were observed on parvalbumin-immunoreactive somata, and thick portions (.gtorsim.2  $\mu\text{m}$  in diameter) of the proximal dendrites, where they were occasionally postsynaptic in some asym. and sym. synapses from parvalbumin-immunoneg. profiles. Characteristically, parvalbumin-immunoreactive processes frequently make direct contacts with one another; processes regarded light microscopically as arising from a soma or a dendrite or parvalbumin-immunoreactive **neurons** were sometimes revealed to be sep. but directly contacting processes with electron microscopic exams. Although puncta adherentia were occasionally observed between these contact sites, so far neither **gap** junctions nor chemical synapses were observed. Until now, it has been believed that in the external plexiform layer only granule cells form reciprocal synapses with mitral/tufted cells. However, the present study clearly demonstrates that interneurons different from granule cells, namely GABAergic **neurons** containing a calcium-binding protein parvalbumin, also make reciprocal synapses with mitral/tufted cells in the external plexiform layer. Therefore, **neuronal** processes making reciprocal synapses with mitral/tufted cells in the external plexiform layer cannot be determined a priori as granule cell processes.

L8 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 31 May 1992

ACCESSION NUMBER: 1992:212294 CAPLUS

DOCUMENT NUMBER: 116:212294

TITLE: Localization of amyloid precursor protein in  
GAP43-immunoreactive aberrant sprouting  
**neurites** in Alzheimer's disease

AUTHOR(S): Masliah, Eliezer; Mallory, Margaret; Hansen, Lawrence;  
Alford, Michael; DeTeresa, Richard; Terry, Robert;  
Baudier, Jacques; Saitoh, Tsunao

CORPORATE SOURCE: Sch. Med., Univ. California, La Jolla, CA, 92093-0624,  
USA

SOURCE: Brain Research (1992), 574(1-2), 312-16  
CODEN: BRREAP; ISSN: 0006-8993

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Previous in vitro studies have suggested that amyloid precursor protein (**APP**) could be involved in cell surface adhesion, neuritic growth and survival of hippocampal **neurons**. In the present study, involvement of **APP** in aberrant sprouting in Alzheimer's disease (AD) was studied by comparing immunolabeling patterns of anti-**APP** and anti-growth-associated protein 43 (anti-GAP43). Confocal laser imaging of frontal cortex sections double-immunolabeled for **APP** and GAP43 showed an increase, in AD, of presynaptic boutons immunostained with anti-GAP43 that contained anti-**APP** immunoreactivity. The neuritic plaques in AD cases presented intense anti-GAP43 immunoreactive abnormal **neurites** co-localized with anti-**APP**. **Three-dimensional** reconstruction of the plaques showed that anti-**APP** was co-localized with anti-GAP43 in 57.5% of the

10/713565

aberrant sprouting neurites. Thus, co-expression of APP with GAP43 in the plaque might be involved in the aberrant sprouting response observed in AD.

(FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS, JAPIO, RAPRA, PROMT, PASCAL, APOLLIT, CBNB, CIN, CEN' ENTERED AT 12:25:49 ON 04 MAR 2005)

L1 5406 SEA FILE=CAPLUS ABB=ON PLU=ON (NEURON? OR NERVE OR NEURITE  
OR AXON) AND (DEVICE OR APPARAT?)  
L2 125 SEA FILE=CAPLUS ABB=ON PLU=ON L1 AND (HOUSING OR HOUSE# OR  
CHIP OR 3D OR (3 OR THREE) (W) (D OR DIMENSION?))  
L3 12 SEA FILE=CAPLUS ABB=ON PLU=ON L2 AND (APERTURE OR HOLE OR  
WINDOW OR PORE OR OPENING OR GAP OR SLIT OR SLITTED OR  
ORIFICE)  
L9 520 SEA L3  
L10 352 SEA L9 AND (RESERVOIR OR WELL OR COMPARTMENT? OR CHAMBER? OR  
CHANNEL? OR RECEPTACLE)  
L11 169 SEA L10 AND (RETINA# OR EYE OR OCULAR OR OPTIC OR OPTICAL?)  
L12 71 SEA L11 AND (MICROPATTERN? OR STAMP OR STAMPED OR STAMPING OR  
PRINT OR PRINTED OR GROOVE# OR GROOVING OR ETCHING OR ETCH##  
OR MICROETCH? OR RIE(S) ETCH?)  
L13 8 SEA L11 AND IMPRINT?  
L14 72 SEA L12 OR L13  
L15 31 SEA L14 AND (MICROFLUID? OR FLUID?)  
L16 29 DUP REM L15 (2 DUPLICATES REMOVED)

L16 ANSWER 1 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2004:85831 PROMT  
TITLE: It's show time! Toy manufacturers invite buyers to check  
out their main attractions for 2004. (ToyFair2004) (Cover  
Story)  
AUTHOR(S): Brill, Pamela  
SOURCE: Playthings, (Feb 2004) Vol. 102, No. 2, pp. 24(30).  
ISSN: ISSN: 0032-1567.  
PUBLISHER: Reed Business Information  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 12714

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB This is no dress rehearsal; it's a live performance (and from New York)!  
The costumes have been fitted, product pitches have been committed to  
memory and the cast of new playthings are primed and ready to perform.  
It's Toy Fair 2004! After months of research, product development and  
overall preparation, manufacturers' marketing plans are now set, as  
product has morphed from idea into item. The time for showing off their  
newest offerings is now.

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90504.

L16 ANSWER 2 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2004:175621 PROMT  
TITLE: Guide to exhibitors. (Exhibition Catalogue)

Searcher : Shears 571-272-2528

10/713565

SOURCE: Glass International, (March-April 2004) Vol. 27, No. 2, pp. C12(23).  
ISSN: ISSN: 0143-7836.  
PUBLISHER: DMG World Media Ltd.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 21896

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Agr International Inc  
THIS IS THE FULL TEXT: COPYRIGHT 2004 DMG World Media Ltd.

Subscription: 120.00 British pounds per year. Published quarterly.  
Queensway House, 2 Queensway, Redhill, Surrey RH1 1QS., United Kingdom

L16 ANSWER 3 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2004:73392 PROMT  
TITLE: Latest glassmaking technologies at US exhibition. (Exhibition Preview)  
SOURCE: Glass International, (Jan-Feb 2004) Vol. 27, No. 1, pp. 6(10).  
ISSN: ISSN: 0143-7836.  
PUBLISHER: DMG World Media Ltd.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 10505

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB The world's leading suppliers of glass production technology will be at Glassman America 2004 in Pittsburgh, Pennsylvania, on May 18 and 19. Around 100 exhibitors will gather at the David L Lawrence Convention Center to promote the latest developments in machinery, equipment and materials used in primary glass manufacturing. It will be the fourth time the exhibition has been staged in Pittsburgh, the historic centre of the long-established US glassmaking industry. It will give technical and production specialists the opportunity to share their expertise with their contemporaries from throughout the glassmaking process from hatching and melting through forming to cold end packing. The event will be accompanied by workshops and a conference organism by the Glass Manufacturing Industry Council, the umbrella trade group for glassmakers in the US. The following pages highlight some of the technologies on show and the companies taking part in this exciting exhibition.

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Queensway House, 2 Queensway, Redhill, Surrey RH1 1QS., United Kingdom

L16 ANSWER 4 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2003:565483 PROMT  
TITLE: Guide to exhibitors. (Exhibition Catalogue).  
SOURCE: Glass International, (March-April 2003) Vol. 26, No. 2, pp. C8(26).  
ISSN: ISSN: 0143-7836.  
PUBLISHER: DMG World Media Ltd.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English

Searcher : Shears 571-272-2528



10/713565

WORD COUNT: 21447

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB AGR International

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Subscription: 120.00 British pounds per year. Published quarterly.  
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L16 ANSWER 5 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2003:752216 PROMT

TITLE: CHAPTER IV Eye care products outputs and forecasts.

SOURCE: Chinese Markets for Eye Care Products, (Dec 2003) .

PUBLISHER: Asia Market Information & Development Company

DOCUMENT TYPE: Newsletter

LANGUAGE: English

WORD COUNT: 17913

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Overview

THIS IS THE FULL TEXT: COPYRIGHT 2003 Asia Market Information & Development Company

L16 ANSWER 6 OF 29 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN

ACCESSION NUMBER: 2003-175344 [17] WPIDS

DOC. NO. CPI: C2003-045924

TITLE: Microfabricated artificial synapse useful for implantation into retina of animal, comprises microfabricated device having a surface with a micropattern and a nanoaperture, and a cell having a cell process.

DERWENT CLASS: B07 D16

INVENTOR(S): BENT, S F; BLOOM, D M; BLUMENKRANZ, M; FISHMAN, H A; LEE, C; LENG, T; PETERMAN, M C; ZIEBARTH, J M; MEHENTI, N; NOOLANDI, J

PATENT ASSIGNEE(S): (STRD) UNIV LELAND STANFORD JUNIOR; (BENT-I) BENT S F; (BLOO-I) BLOOM D M; (BLUM-I) BLUMENKRANZ M; (FISH-I) FISHMAN H A; (LEEC-I) LEE C; (LENG-I) LENG T; (PETE-I) PETERMAN M C; (ZIEB-I) ZIEBARTH J M; (MEHE-I) MEHENTI N; (NOOL-I) NOOLANDI J

COUNTRY COUNT: 101

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG																		
WO 2003002710	A2	20030109	(200317)*	EN	59																		
RW:	AT	BE	CH	CY	DE	DK	EA	ES	FI	FR	GB	GH	GM	GR	IE	IT	KE	LS	LU	MC	MW	MZ	
	NL	OA	PT	SD	SE	SL	SZ	TR	TZ	UG	ZM	ZW											
W:	AE	AG	AL	AM	AT	AU	AZ	BA	BB	BG	BR	BY	BZ	CA	CH	CN	CO	CR	CU	CZ	DE	DK	
	DM	DZ	EC	EE	ES	FI	GB	GD	GE	GH	GM	HR	HU	ID	IL	IN	IS	JP	KE	KG	KP	KR	
	KZ	LC	LK	LR	LS	LT	LU	LV	MA	MD	MG	MK	MN	MW	MX	MZ	NO	NZ	OM	PH	PL	PT	
	RO	RU	SD	SE	SG	SI	SK	SL	TJ	TM	TN	TR	TT	TZ	UA	UG	UZ	VN	YU	ZA	ZM	ZW	
US 2003032946	A1	20030213	(200319)																				
EP 1421172	A2	20040526	(200435)	EN																			
R:	AL	AT	BE	CH	CY	DE	DK	ES	FI	FR	GB	GR	IE	IT	LI	LT	LU	LV	MC	MK	NL	PT	
	RO	SE	SI	TR																			

Searcher : Shears 571-272-2528

AU 2002345965	A1 20030303 (200452)	
JP 2004533837	W 20041111 (200474)	95
US 2004224002	A1 20041111 (200475)	
MX 2003011923	A1 20040401 (200478)	

## APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2003002710	A2	WO 2002-US20526	20020625
US 2003032946	A1 Provisional	US 2001-301934P	20010629
		US 2002-184210	20020627
EP 1421172	A2	EP 2002-744712	20020625
		WO 2002-US20526	20020625
AU 2002345965	A1	AU 2002-345965	20020625
JP 2004533837	W	WO 2002-US20526	20020625
		JP 2003-509072	20020625
US 2004224002	A1 Provisional	US 2001-301934P	20010629
	CIP of	US 2002-184210	20020627
		US 2003-713565	20031113
MX 2003011923	A1	WO 2002-US20526	20020625
		MX 2003-11923	20031218

## FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1421172	A2 Based on	WO 2003002710
AU 2002345965	A1 Based on	WO 2003002710
JP 2004533837	W Based on	WO 2003002710
MX 2003011923	A1 Based on	WO 2003002710

PRIORITY APPLN. INFO: US 2001-301934P 20010629; US  
 2002-184210 20020627; US  
 2003-713565 20031113

AN 2003-175344 [17] WPIDS

AB WO2003002710 A UPAB: 20030312

NOVELTY - A microfabricated artificial synapse (10) (I) comprises a microfabricated **device** having a surface with a **micropattern** (14) and a nanoaperture (24), where the **micropattern** is effective to direct the growth of a cell process, and a cell (26) having a cell process, where the cell process is directed by the **micropattern** to contact the nanoaperture.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a **device** (II) for directing the growth of a cell process, comprises a substrate (12) with a surface configured to receive a cell process and a **micropattern** effective to direct the growth of a cell process in a desired direction on the surface;

(2) a **device** (III) for delivering neuromodulatory agents to at least one portion of a cell, comprises a surface and a **reservoir**, where the **reservoir** is effective to contain the neuromodulatory agents, the surface has an exterior face, an interior face and a nanoaperture, the nanoaperture provides a connecting path between the interior and the exterior faces, the exterior face is configured to contact a cell, the interior face is in contact with the

**reservoir**, and the nanoaperture is effective to provide a conduit for the delivery of the neuromodulatory agents from the **reservoir** to at least a portion of the cell;

(3) a **device** (IV) for contacting and stimulating at least a portion of a cell, comprises a surface having an exterior face and a circuit, where the exterior face being configured to contact a cell, and the circuit has at least one contact and is effective to stimulate at least a portion of a cell adjacent the contact;

(4) a regeneration electrode assembly (V) comprising a **neurite-directing device** and a circuit effective to contact and stimulate at least a portion of a cell;

(5) directing (M1) the growth of a cell process in a desired manner from a cell capable of growing a cell process, by providing a surface comprising a **micropattern**, and contacting a cell capable of growing a cell process, effective to direct the growth of a cell process from the cell in a desired manner;

(6) directing (M2) the growth of a cell process from a cell capable of growing a cell process to a location adjacent a contact of a circuit, by providing a surface comprising a circuit and a **micropattern**, and contacting a cell capable of growing a cell process with the surface, effective to direct the growth of a cell process from the cell to a location adjacent the contact;

(7) stimulating (M3) at least a portion of a cell capable of growing a cell process, by contacting a cell with a surface comprising a **micropattern** and a desired location, directing the growth of a cell process from the cell to a position adjacent the desired location, and providing a stimulus from the desired location to the cell process effective to stimulate at least a portion of the cell;

(8) a system (VI) for implantation into an animal comprises an artificial synapse **chip** (ASC), a photosensitive **device**, a communication link between the ASC and the photosensitive **device**, and a power source; and

(9) a **device** (VII) for contacting a portion of a cell with a **fluid**, comprises a substrate with a surface configured to receive a cell process and a **micropattern** effective to direct a cell process to a desired location on the surface, and a **microfluidic** system comprising a **fluid** delivery **channel** configured to direct a **fluid** to the desired location.

USE - (II) is useful for directing the growth of a cell. (III) is useful for delivering neuromodulatory agents to at least a portion of a cell. (III) is useful for contacting and stimulating at least a portion of a cell. (III) or (IV) is useful for producing an intra-**ocular device**, by providing (III) or (IV) configured for implantation into an **eye**, where (III) or (IV) is configured for implantation into a region of the **eye**, where the region is selected from **retina**, the region adjacent the inner limiting membrane and the subretinal space (claimed). (I) is useful for implantation into the **retina** of an animal to provide a neural prostheses for restoring visual function in patients suffering from blindness due to age-related macular degeneration (AMD), retinitis pigmentosa and other photoreceptor blinding diseases, or for implantation into the nervous system of an animal. The above mentioned **devices** provide a neural prosthesis suitable for implantation in any location within the nervous system of body of a patient, for the treatment of spinal cord injuries, neuropathies, bladder dysfunction, and other diseases due to

neuronal disorders.

ADVANTAGE - The artificial synapse **chip** provides the advantages of specificity and control of stimulation at a cellular level to provide novel ways to influence the behavior of a cellular system. Since the source is in direct contact with the **neuron**, the **chip** uses less power for stimulation than conventional stimulators.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view and a plan view of an artificial synapse **chip**

Artificial synapse **chip** 10  
Substrate 12

**Micropattern** 14

**Aperture** 24

Cell 26

1A, 1B/12

L16 ANSWER 7 OF 29 MEDLINE on STN DUPLICATE 1  
ACCESSION NUMBER: 2003536593 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 14616516  
TITLE: The Artificial Synapse **Chip**: a flexible  
retinal interface based on directed retinal  
cell growth and neurotransmitter stimulation.  
AUTHOR: Peterman Mark C; Mehenti Neville Z; Bilbao Kalayaan V; Lee  
Christina J; Leng Theodore; Noolandi Jaan; Bent Stacey F;  
Blumenkranz Mark S; Fishman Harvey A  
CORPORATE SOURCE: Department of Applied Physics, Stanford University,  
Stanford University, Stanford, CA, USA.  
SOURCE: Artificial organs, (2003 Nov) 27 (11) 975-85.  
Journal code: 7802778. ISSN: 0160-564X.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200403  
ENTRY DATE: Entered STN: 20031118  
Last Updated on STN: 20040309  
Entered Medline: 20040308

AB The Artificial Synapse **Chip** is an evolving design for a flexible  
retinal interface that aims to improve visual resolution of an  
electronic retinal prosthesis by addressing cells individually  
and mimicking the physiological stimulation achieved in synaptic  
transmission. We describe three novel approaches employed in the  
development of the Artificial Synapse **Chip**: (i)  
micropatterned substrates to direct retinal cell  
neurite growth to individual stimulation sites; (ii) a prototype  
retinal interface based on localized neurotransmitter delivery;  
and (iii) the use of soft materials to fabricate these devices.  
By patterning the growth of cells to individual stimulation sites, we can  
improve the selectivity of stimulation and decrease the associated power  
requirements. Moreover, we have microfabricated a neurotransmitter  
delivery system based on a 5- micro m aperture in a 500-nm-thick  
silicon nitride membrane overlying a microfluidic  
channel. This device can release neurotransmitter  
volumes as small as 2 pL, demonstrating the possibility of chemical-based  
protheses. Finally, we have fabricated and implanted an equivalent  
device using soft flexible materials that conform to the

10/713565

retinal tissue more effectively. As many of the current retinal prosthesis devices use hard materials and electrical excitation at a lower resolution, our approach may provide more physiologic retinal stimulation.

L16 ANSWER 8 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2002:635142 PROMT  
TITLE: Trade name directory. (K-Z).  
SOURCE: Chemical Engineering, (15 Aug 2002) Vol. 109, No. 9, pp. 411(27).  
ISSN: ISSN: 0009-2460.  
PUBLISHER: Chemical Week Associates  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 33157  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB J

THIS IS THE FULL TEXT: COPYRIGHT 2002 Chemical Week Associates

Subscription: \$29.50 per year. Published semimonthly. 110 William Street, New York, NY 10038.

L16 ANSWER 9 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2002:807281 PROMT  
TITLE: The Midwest.(advertising industry post 9/11)  
AUTHOR(S): Fishel, Cathy  
SOURCE: Print, (July-August 2002) Vol. 55, No. 4, pp. 167(56).  
ISSN: ISSN: 0032-8510.  
PUBLISHER: RC Publications, Inc.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 9675  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Anyone who lives in the Midwest knows the routine: When the weather sirens go off, you hit the cellar and hunker down with your loved ones and your most optimistic attitude until the storm passes. In Midwestern design communities at the midpoint of 2002, the all-clear signal had not yet sounded.

THIS IS THE FULL TEXT: COPYRIGHT 2002 RC Publications, Inc.

Subscription: \$53.00 per year. Published bimonthly. 3200 Tower Oaks Boulevard, Rockville, MD 20852.

L16 ANSWER 10 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2002:285885 PROMT  
TITLE: Paint & decorating. (Product Knowledge Handbook 2002).  
SOURCE: Do-It-Yourself Retailing, (May 2002) Vol. 182, No. 5, pp. 131(19).  
ISSN: ISSN: 0889-2989.  
PUBLISHER: National Retail Hardware Association  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 19995

Searcher : Shears 571-272-2528

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Paint should be viewed as a project starter, since the consumer rarely needs just a can of paint to complete his project. A good salesperson should always try to build on a basic paint sale by asking the customer about the surface they intend to paint, which helps them suggest the right paint and applicator. And since poor surface preparation leads to dissatisfied customers, make sure employees are familiar with the ins and outs of proper surface preparation and stress these points to the customer.

THIS IS THE FULL TEXT: COPYRIGHT 2002 National Retail Hardware Association

Subscription: \$15.00 per year. Published monthly. 5822 West 74th Street, Indianapolis, IN 46278.

L16 ANSWER 11 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2002:610755 PROMT  
 TITLE: Destination: Pack Expo International chart your course.  
 (Pack Expo International 2002).  
 SOURCE: Packaging Digest, (Oct 2002) Vol. 39, No. 10, pp. 76(42).  
 ISSN: ISSN: 0030-9117.  
 PUBLISHER: Reed Business Information  
 DOCUMENT TYPE: Newsletter  
 LANGUAGE: English  
 WORD COUNT: 22206

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB This complete preview of exhibits will help you plan your excursion through miles of packaging machinery, materials and technology. The Pack Expo 2002 vista opens Nov. 3 at McCormick Place, Chicago, for a five-day run. Co-locating with the packaging exhibition is IEFP, the show for food processing. Complementing the exhibits is the Conference at Pack Expo program.

L16 ANSWER 12 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2002:493513 PROMT  
 TITLE: A Tale of Taxol: the tortured trail of the best-selling cancer drug in history began 40 years ago this summer. A thunder-clap of uncommon science and luck, it's a grand story still in the telling. (Cover Story). (Brief Article)  
 AUTHOR(S): Stephenson, Frank  
 SOURCE: Florida Trend, (Nov 2002) Vol. 45, No. 7, pp. S12(26).  
 ISSN: ISSN: 0015-4326.  
 PUBLISHER: Trend Magazines, Inc.  
 DOCUMENT TYPE: Newsletter  
 LANGUAGE: English  
 WORD COUNT: 13867

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Arthur S. Barclay stood sweating, hands on hips, staring at his quarry--a stand of small, scraggly trees hugging the shade of their dignified cousins, tall Douglas firs reaching up into a tepid summer breeze.

THIS IS THE FULL TEXT: COPYRIGHT 2002 Trend Magazines, Inc.

Subscription: \$30.00 per year. Published monthly. P.O. Box 611, St.

Petersburg, FL 33731-0611.

L16 ANSWER 13 OF 29 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2003:154966 BIOSIS  
DOCUMENT NUMBER: PREV200300154966  
TITLE: The Artificial Synapse **Chip**: A Novel Interface for a **Retinal** Prosthesis based on Neurotransmitter Stimulation and **Nerve** Regeneration.

AUTHOR(S): Fishman, H. A. [Reprint Author]; Peterman, M. C.; Leng, T [Reprint Author]; Huie, P. [Reprint Author]; Lee, C. J. Bloom, D. M.; Sanislo, S. R. [Reprint Author]; Marmor, M. F. [Reprint Author]; Bent, S. F.; Blumenkranz, M. S. [Reprint Author]

CORPORATE SOURCE: Ophthalmology, Stanford University, Stanford, CA, USA  
SOURCE: ARVO Annual Meeting Abstract Search and Program Planner, (2002) Vol. 2002, pp. Abstract No. 2846. cd-rom. Meeting Info.: Annual Meeting of the Association For Research in Vision and Ophthalmology. Fort Lauderdale, Florida, USA. May 05-10, 2002.

DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 26 Mar 2003  
Last Updated on STN: 26 Mar 2003

AB Purpose: Present prosthetic **devices** stimulate **neurons** electrically with limited spatial control and without cell type specificity. Our purpose is to explore whether **neuronal** growth can be directed to a **chip** where focal neurotransmitter stimulation would provide a more physiologic and **neuron**-specific transfer of information. Methods: Microlithographic fabrication techniques from the computer **chip** industry were used (i) to **stamp** microcircuit-like patterns of biomolecules onto a surface with 5-mum resolution and (ii) to create microapertures that connect to a **microfluidic channel** system. Small pulses of neurotransmitters (i.e., artificial synapse) are delivered underneath single cells. Standard photolithographic techniques were used to fabricate photoresist coated silicon substrates (molds) for microstamp fabrication. Microapertures were made in silicon nitride and the **microfluidic channels** were fabricated from a PDMS matrix. **Neurites** from isolated rat **retinal** ganglion cells (RGCs) and PC-12 cells were cultured on the patterns of growth modulating factors. RGCs were purified by sequential immunopanning to greater than 99.5% purity from P7 Sprague-Dawley rats. Approximately 50,000 RGCs were seeded onto the patterned surfaces. RGCs were cultured at 37 degreeC and 6.5% CO2 in 2 mL of serum-free medium (Neurobasal with supplements). Dynamic fluorescence measurements of the calcium indicator, fluo-4, were used to measure activity of RGC and PC-12 cells on the **chip**. Results: RGC and PC-12 **neurites** were directed by surface **micropatterns** of laminin to grow toward focal stimulation sites. Cells and their **neurites** that were directed to grow over 5-mum **apertures** connected to a **microfluidics** system could be stimulated with pulsed neurotransmitters. Transmitter stimulation caused a calcium increase along the **neurite** and in the cell soma, indicating transmission

of signal to the cell soma. With the appropriate flow rate and concentration, no stimulation effects were found outside a 5-mum radius from the **apertures**. RGC and PC-12 cells were stable over these **apertures**, and did not detach with the picoliter volumes delivered. Conclusion: The ability to direct the growth of RGCs, and to use a microfabricated neurotransmitter delivery system, demonstrates the feasibility of a visual prosthesis interface based on direct **neuronal** stimulation with physiologically appropriate neurotransmitters.

L16 ANSWER 14 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2001:698743 PROMT  
 TITLE: WITHIN A NANOMETER OF YOUR LIFE. (Nanotechnology, semiconductors) (Brief Article)  
 AUTHOR(S): Menezes, Allen J.; Kapoor, Vik J.; Goel, Vijay K.; Cameron, Brent D.; Lu, Jian; Yu  
 SOURCE: Mechanical Engineering-CIME, (August 2001) Vol. 123, No. 8, pp. 54.  
 ISSN: 0025-6501.  
 PUBLISHER: American Society of Mechanical Engineers  
 DOCUMENT TYPE: Newsletter  
 LANGUAGE: English  
 WORD COUNT: 2934

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Advances in semiconductor manufacturing techniques are bringing medicine closer to cures and treatments that have eluded researchers working on the macro scale.

THIS IS THE FULL TEXT: COPYRIGHT 2001 American Society of Mechanical Engineers

Subscription: \$45.00 per year. Published monthly. 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

L16 ANSWER 15 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2001:906019 PROMT  
 TITLE: Fresh air, wide-open space Researchers are developing a new vision of flight, a future of ever-safer, more efficient vehicles and system controls.  
 AUTHOR(S): Goldin, Daniel S.; Venneri, Samuel L.; Noor, Ahmed K.  
 SOURCE: Mechanical Engineering-CIME, (Nov 2001) Vol. 123, No. 11, pp. 48(8).  
 ISSN: 0025-6501.  
 PUBLISHER: American Society of Mechanical Engineers  
 DOCUMENT TYPE: Newsletter  
 LANGUAGE: English  
 WORD COUNT: 4063

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB SINCE THE MIDDLE of the last century aerospace technology has become a unique, indispensable part of our world. Commercial aviation has made it possible for more people and cargo to travel faster than at any previous time in history.

THIS IS THE FULL TEXT: COPYRIGHT 2001 American Society of Mechanical Engineers



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Subscription: \$45.00 per year. Published monthly. 22 Law Drive, Box 2300,  
Fairfield, NJ 07007-2300.

L16 ANSWER 16 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2001:374165 PROMT  
TITLE: Latest glass technology will go on snow in Lyon.  
SOURCE: Glass International, (Jan 2001) Vol. 24, No. 1, pp. 23.  
ISSN: 0143-7836.  
PUBLISHER: DMG Business Media Ltd.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 10187

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Glassman returns to Lyon for the fifth time from 4 to 5 April this year  
and the Palais des Congres is the venue.  
THIS IS THE FULL TEXT: COPYRIGHT 2001 DMG Business Media Ltd.

Subscription: 120.00 British pounds per year. Published quarterly.  
Queensway House, 2 Queensway, Redhill, Surrey RH1 1QS., United Kingdom

L16 ANSWER 17 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2001:240525 PROMT  
TITLE: Supplier Listing (A - H). (Brief Article)  
SOURCE: Modern Plastics, (15 Feb 2001) pp. F-141.  
ISSN: 0026-8275.  
PUBLISHER: Chemical Week Associates  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 70987

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB A  
THIS IS THE FULL TEXT: COPYRIGHT 2001 Chemical Week Associates

Subscription: \$41.75 per year. Published monthly.

L16 ANSWER 18 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2000:475298 PROMT  
TITLE: MD&M East 2000 Exhibitor Profiles A to Z.  
SOURCE: Business Wire, (5 Jun 2000) pp. 913.  
PUBLISHER: Business Wire  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 13276

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Business/Medical Writers  
THIS IS THE FULL TEXT: COPYRIGHT 2000 Business Wire

L16 ANSWER 19 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2000:618435 PROMT  
TITLE: 24th Annual Source Guide. (Brief Article)  
SOURCE: Automotive Industries, (June 2000) Vol. 180, No. 6, pp. 107

Searcher : Shears 571-272-2528

10/713565

ISSN: 0273-656X.  
PUBLISHER: Cahners Publishing Company  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 114703  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB EXTERIOR  
THIS IS THE FULL TEXT: COPYRIGHT 2000 Cahners Publishing Company

Subscription: \$70.00 per year. Published monthly. Box 6399, Torrence, CA 90504.

L16 ANSWER 20 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2000:1099231 PROMT  
TITLE: Emphasis: Assembly and Fastening.  
SOURCE: Appliance, (Dec 2000) Vol. 57, No. 12, pp. 99.  
ISSN: 0003-6781.  
PUBLISHER: Dana Chase Publications, Inc.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 8560  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Adhesive Film  
THIS IS THE FULL TEXT: COPYRIGHT 2000 Dana Chase Publications, Inc.

Subscription: \$68.00 per year. Published monthly. 1110 Jorie Boulevard, CS-9019, Oak Brook, IL 60522.

L16 ANSWER 21 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2000:1151871 PROMT  
TITLE: Packaging on the menu at InterBev 2000.  
SOURCE: Packaging Digest, (Nov 2000) Vol. 37, No. 12, pp. 70.  
ISSN: 0030-9117.  
PUBLISHER: Reed Business Information  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 4429  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB InterBev, Dec. 4 to 6 in New Orleans, encompasses all aspects of the beverage market--including packaging. Following is a briefing on the packaging-related exhibitors and information on InterBev's new conference program.

L16 ANSWER 22 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2001:81519 PROMT  
TITLE: **Optical** Networks: The Lambda that Roared. (Technology Information)  
AUTHOR(S): Michael, Bill; Richardson, Robert  
SOURCE: Computer Telephony, (Dec 2000) Vol. 8, No. 12, pp. 38.  
ISSN: 1072-1711.  
PUBLISHER: Miller Freeman, Inc.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English

Searcher : Shears 571-272-2528

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WORD COUNT: 10945

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB As we were preparing this article, stocks of top **optical** vendors were taking a beating on NASDAQ. In late October, when Nortel posted third-quarter earnings that were actually better than analysts were predicting, but worse than the market as a whole was hoping for, the stock promptly fell 29 percent, taking along with it Ciena (down 20 percent), Corning (down 18 percent), and even clipping Cisco by several percent. Lucent, meanwhile, announced per-quarter earnings 22 percent lower than those of a year ago, pushing even further and deeper a season of loss that had seen stock prices in the sixties in duly fall below twenty in time for a grisly Halloween. Lucent CEO Richard McGinn was sent out to seek his treats elsewhere.

THIS IS THE FULL TEXT: COPYRIGHT 2000 Miller Freeman, Inc.

Subscription: \$38.00 per year. Published monthly. 600 Harrison Street, San Francisco, CA 94107.

L16 ANSWER 23 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2000:982369 PROMT  
TITLE: Gearing up for Glasstec.  
SOURCE: Glass International, (Sept 2000) Vol. 23, No. 5, pp. 29.  
ISSN: 0143-7836.  
PUBLISHER: DMG Business Media Ltd.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 16332

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Messe Dusseldorf will once again open its doors to Glasstec visitors from 24-28 October this year. Exhibitors from more than 30 countries will be present and many companies will be launching their latest products at the show. In the following pages we focus on some of the products and services that will be presented.

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Subscription: 120.00 British pounds per year. Published quarterly.  
Queensway House, 2 Queensway, Redhill, Surrey RH1 1QS., United Kingdom

L16 ANSWER 24 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2000:672201 PROMT  
TITLE: Pittsburgh set to show the latest glass technology. (Product Information)  
SOURCE: Glass, (Feb 2000) Vol. 77, No. 1, pp. 24.  
ISSN: 0017-0984.  
PUBLISHER: DMG Business Media Ltd.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 11090

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB More than 120 leading international suppliers of glass production technology will be present at Glassman America 2000 on 2 and 3 May this year. The show returns to the David L Lawrence Convention Center in Pittsburgh, Pennsylvania, USA, where an excellent turnout is once again expected.

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Subscription: 123.00 British pounds per year. Published monthly. Queensway House, 2 Queensway, Redhill, Surrey RH1 1QS., United Kingdom

L16 ANSWER 25 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 1999:84177 PROMT  
TITLE: Paint & decorating products. (1998 Product Knowledge Handbook) (includes related article on the use of lead-based paint and regulations on volatile organic compounds) (evaluation of paints, coatings and related supplies)  
SOURCE: Do-It-Yourself Retailing, (May 1998) Vol. 174, No. 5, pp. 167(2).  
ISSN: 0889-2989.  
PUBLISHER: National Retail Hardware Association  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 18974

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Along with personal selling skills, having the right knowledge about products and their capabilities is instrumental to ensuring sales of paint, coatings, applicators and other decorative items.  
THIS IS THE FULL TEXT: COPYRIGHT 1998 National Retail Hardware Association

L16 ANSWER 26 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 2000:452364 PROMT  
TITLE: World of ophthalmology converges upon New Orleans.  
SOURCE: Ophthalmology Times, (1 Nov 1998) Vol. 23, No. 21, pp. 40.  
ISSN: 0193-032X.  
PUBLISHER: Advanstar Communications, Inc.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 12826

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Having avoided the threat of Hurricane Georges, New Orleans awaits the deluge of delegates from the American Academy of Ophthalmology (AAO), who will descend upon Ernest N. Morial Convention Center (Halls BF) for the "world's largest exposition of ophthalmic technology," Nov. 8 to 11.  
THIS IS THE FULL TEXT: COPYRIGHT 1998 Advanstar Communications, Inc.

Subscription: \$150.00 per year. Published semimonthly. 7500 Old Oak Blvd., Cleveland, OH 44130.

L16 ANSWER 27 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 96:556645 PROMT  
TITLE: Integra stays ahead in fast-moving industry.  
Continues to flourish in the dynamic managed care market with the development of new products  
SOURCE: Cincinnati Business Courier (OH), (30 Sep 1996) pp. B3.  
ISSN: 0882-8881.  
LANGUAGE: English

Searcher : Shears 571-272-2528

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AB Integra Group Inc. (Cincinnati, OH) continues to flourish in the dynamic managed care market with the development of new products. The company has developed a complete care-management software package called Trak-It. Integra also continues to pursue new niches for the company's current network products. Integra also intends to increase twofold its current 7,700 square feet of office space and considers creating a financial alliance with another organization.

L16 ANSWER 28 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 95:24015 PROMT  
TITLE: New products: Lighter and brighter  
SOURCE: Ophthalmology Times, (9 Jan 1995) pp. 11.  
ISSN: 0193-032X.  
LANGUAGE: English  
WORD COUNT: 2470  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB TOM JOHNSON

Many of the crowd prowling the exhibit floor of the American Academy of Ophthalmology's annual meeting in San Francisco came looking for new technology. They found it, in a welter of products, processes, and computer wizardry that is stretching the envelope of medical technical performance.

This year's display had something new and technically sophisticated for everyone seeking smaller, faster, lighter, sharper, more accurate, cheaper, or brighter devices to help advance the field of ophthalmology. Whether they were interested in IOLs, glaucoma, surgical instruments, phaco systems, computer software, lasers, vision testing, or topographic/imaging equipment, someone built it, and they came.

Iovision Inc. The IOL field is a case in point. Iovision, for example, displayed several new products for small-incision surgery. The following are limited to investigational use only within the United States:

The Nordan varifocal extended range aspheric foldable IOL, a small incision lens combining spheric and aspheric optics to allow an extended range of focus on the retina without compromising distance vision.

The Pliolens SP 134 foldable intraocular single-piece lens is designed for insertion through sub-3.0-mm incisions using the Blake SP injector delivery system. It features a 6.0-mm optic and is 10.5 mm in overall length.

The Pliolens 127 IOL is the only foldable silicone IOL available with PMMA haptics and a UV absorber. It has a 6.0-mm optic and 12.5 overall length and is available from 10 to 30 D in 0.5-D increments.

The Pliolens 128 IOL foldable silicone lens also is a foldable silicone lens with PMMA haptics and a UV absorber. It has a 6.0-mm optic and 14.0-mm overall length, making it ideal for sulcus fixation. It is available from 10 to 30 D in 0.5-D increments.

Iovision also presented the Baerveldt glaucoma implant design configuration, introduced in September. The company calls it 'the most innovative seton on the market.

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L16 ANSWER 29 OF 29 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 89:285008 PROMT  
TITLE: Product information section. (Clinical Laboratory Reference

Searcher : Shears 571-272-2528

10/713565

SOURCE: 1989) (buyers guide)  
Medical Laboratory Observer, (Annual 1989) Vol. 21, No. 13,  
pp. 16(90).  
ISSN: ISSN: 0580-7247.  
PUBLISHER: Nelson Publishing  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 61023

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB PRODUCT INFORMATION SECTION

THIS IS THE FULL TEXT: COPYRIGHT 1989 Nelson Publishing

Subscription: \$65.00 per year. Published monthly. 2500 N. Tamiami Trail,  
Nokomis, FL 34275-3482.

FILE 'CAPLUS' ENTERED AT 12:48:07 ON 04 MAR 2005

L17 2600 SEA FILE=CAPLUS ABB=ON PLU=ON (NEURON? OR NERVE OR NEURITE  
OR AXON OR RETINA#(5A)CELL OR RPE(S)RETINA# OR DENDRITE) AND  
(HOUSING OR HOUSE# OR CHIP OR 3D OR (3 OR THREE) (W) (D OR  
DIMENSION?))  
L18 135 SEA FILE=CAPLUS ABB=ON PLU=ON L17 AND (APERTURE OR HOLE OR.  
WINDOW OR PORE OR OPENING OR GAP OR SLIT OR SLITTED OR  
ORIFICE)  
L19 62 SEA FILE=CAPLUS ABB=ON PLU=ON L18 AND (RESERVOIR OR WELL OR  
COMPARTMENT? OR CHAMBER? OR CHANNEL? OR RECEPTACLE)  
L20 11 SEA FILE=CAPLUS ABB=ON PLU=ON L19 AND (EYE OR RETINA# OR  
OCULAR OR OPTIC OR OPTICAL?)  
L21 6071 SEA FILE=CAPLUS ABB=ON PLU=ON (NEURON? OR NERVE OR NEURITE  
OR AXON OR RETINA#(5A)CELL OR RPE(S)RETINA# OR DENDRITE) AND  
(DEVICE OR APPARAT?)  
L22 145 SEA FILE=CAPLUS ABB=ON PLU=ON L21 AND (HOUSING OR HOUSE# OR  
CHIP OR 3D OR (3 OR THREE) (W) (D OR DIMENSION?))  
L23 13 SEA FILE=CAPLUS ABB=ON PLU=ON L22 AND (APERTURE OR HOLE OR  
WINDOW OR PORE OR OPENING OR GAP OR SLIT OR SLITTED OR  
ORIFICE)  
L24 1 (L20 OR L23) NOT L8

L24 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 12 May 1984

ACCESSION NUMBER: 1979:619389 CAPLUS

DOCUMENT NUMBER: 91:219389

TITLE: Method and apparatus for preventing short  
circuits

INVENTOR(S): Hoerning, Manfred; Kipka, Kurt; Uhlendorf, Dieter

PATENT ASSIGNEE(S): VEB Mansfeld-Kombinat "Wilhelm Pieck", Ger. Dem. Rep.

SOURCE: Ger. (East), 16 pp.

CODEN: GEXXA8

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

Searcher : Shears 571-272-2528

2

AB To improve the current efficiency in the refining of metals, especially Cu, short circuits are prevented by clearing the **gap** between the anode and cathode before it is filled with budlike and needlelike crystals of e.g. Cu. This removal can be accomplished with the title **app** . consisting of a slide ring connected to an eccentric shaft contained in a **housing**. The slide ring is provided below with a flange, on which are installed 2 elec. insulated clamping plates, held together at their other ends by an end piece and a fastening means, which serve for receiving and fastening of cutting pieces. The entire rectangular front side of the cutting piece has rasp-like teeth. The height of all the cutting pieces and insulating plates between them corresponds to that of the cathode. The insulator material is preferably poly(tetrafluoroethylene). The slide ring with the clearing tool attached to it travels vertically back and forth at a frequency of 3000 Hz and an amplitude of preferably 5 mm to remove the dendritic growth of Cu.

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L21      6071 SEA FILE=CAPLUS ABB=ON  PLU=ON  (NEURON? OR NERVE OR NEURITE
          OR AXON OR RETINA#(5A)CELL OR RPE(S)RETINA# OR DENDRITE) AND
          (DEVICE OR APPARAT?)
L22      145  SEA FILE=CAPLUS ABB=ON  PLU=ON  L21 AND (HOUSING OR HOUSE# OR
          CHIP OR 3D OR (3 OR THREE)(W)(D OR DIMENSION?))
L23      13   SEA FILE=CAPLUS ABB=ON  PLU=ON  L22 AND (APERTURE OR HOLE OR
          WINDOW OR PORE OR OPENING OR GAP OR SLIT OR SLITTED OR
          ORIFICE)
L25      551  SEA L23
L26      374  SEA L25 AND (RESERVOIR OR WELL OR COMPARTMENT? OR CHAMBER? OR
          CHANNEL? OR RECEPTACLE)
L27      184  SEA L26 AND (EYE OR RETINA# OR OCULAR OR OPTIC OR OPTICAL?)
L28      77   SEA L27 AND (MICROPATTERN? OR STAMP OR STAMPED OR STAMPING OR
          PRINT OR PRINTED OR GROOVE# OR GROOVING OR ETCHING OR ETCH##
          OR MICROETCH? OR RIE(S) ETCH? OR IMPRINT?)
L29      34   SEA L28 AND (MICROFLUID? OR FLUID?)
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L31 ANSWER 1 OF 3 PROMT COPYRIGHT 2005 Gale Group on STN

AB      This sampling of the new technology and enhancements exhibited at CastExpo '99 provides foundrymen with a recap of the show floor in St.

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Louis.

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L31 ANSWER 2 OF 3 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 95:473532 PROMT  
TITLE: Alphabetical listings: how to use the 1995 Health Management Technology market directory issue.  
SOURCE: Health Management Technology, (15 Feb 1995) Vol. 16, No. 3, pp. 14(64).  
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PUBLISHER: Nelson Publishing  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 60906

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Several hundred addresses of health management software companies are listed. Included in the directory are the company's name, address, name of a company contact and important telephone numbers. The target market of each company is also listed and each company's number of installations, a price range of the company's products, primary software and hardware products. The directory is further broken down into a second list that provides the company names listed by 212 different applications rather than by company name. Users should look up a product type and when they find a particular company, they can refer back to the company directory for more specific information about the company. Using the 1995 Health Management Technology Market Directory Issue is easy. The directory is divided into two sections.

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L31 ANSWER 3 OF 3 PROMT COPYRIGHT 2005 Gale Group on STN

ACCESSION NUMBER: 94:583626 PROMT  
TITLE: 1994 market directory issue: more than 600 information technology company listings. (vendors of health technology-related products and services, organizations and events) (Directory)  
SOURCE: Health Management Technology, (15 Feb 1994) Vol. 15, No. 3, pp. 14(113).  
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PUBLISHER: Nelson Publishing  
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\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Over 600 healthcare information systems hardware, software and services vendors and consultants are listed alphabetically by company name. The companies are cross-referenced by over 175 categories and subcategories of products and services they offer. The companies are also divided by their type of operation: publicly held, privately held, consulting service or association. Other associations, agencies, groups and non-health providing members of Health Level Seven are separately listed. A calendar of 1994 health industry conferences, trade shows and conventions is provided. How

Searcher : Shears 571-272-2528



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to use the 1994 Health Management Technology Market Directory  
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